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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 14:00:50 ON 02 AUG 2004

FILE 'STNGUIDE' ENTERED AT 14:00:59 ON 02 AUG 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 30, 2004 (20040730/UP).

FILE 'CAPLUS' ENTERED AT 14:01:38 ON 02 AUG 2004
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FILE COVERS 1907 - 2 Aug 2004 VOL 141 ISS 6
FILE LAST UPDATED: 1 Aug 2004 (20040801/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

09886197

=> s termites
L1 2131 TERMITES

=> s l1 and insects
29899 INSECTS
L2 275 L1 AND INSECTS

=> s l2 and wood
145706 WOOD
L3 97 L2 AND WOOD

=> s l3 and composition
618315 COMPOSITION
L4 5 L3 AND COMPOSITION

=> d 14 1-4 ibib hitstr abs

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:569478 CAPLUS
TITLE: Protective barrier coating composition for
construction materials
INVENTOR(S): Batdorf, Vernon Harland
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| US 2004134378 | A1 | 20040715 | US 2003-339426 | 20030109 |
| PRIORITY APPLN. INFO.: | | | US 2003-339426 | 20030109 |

AB The protective barrier coating composition includes a metal borate compound, a Zn compound, Mg hydroxide, and a water-based binder. Building construction materials are protected from **termites** and other **insects**, mold or mildew, and fire or H₂O damage. The composition can be applied onto construction materials by a paint roller, spraying, or brushing, before, during, or after construction. An example coating contained water 29.2, cellulosic thickener 0.3, nonionic surfactant 0.5, anionic dispersant 0.8, ZnO 4.0, titania 2.0, Mg(OH)₂ 23.0, Zn borate 18.0, defoamer 0.2, vinyl acetate ethylene copolymer emulsion 21.0, silane adhesion promoter 0.2, and urethane thickener 0.8 parts.

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:125767 CAPLUS
DOCUMENT NUMBER: 130:178773
TITLE: Composition for the control of wood
-destroying **insects**, especially **termites**
INVENTOR(S): Anderson, John-phillip-evans; Keuken, Oliver
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|----------|
| EP 896791 | A2 | 19990217 | EP 1998-114187 | 19980729 |
| EP 896791 | A3 | 20000112 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| DE 19734665 | A1 | 19990218 | DE 1997-19734665 | 19970811 |
| TW 505500 | B | 20021011 | TW 1998-87112592 | 19980731 |
| US 6264968 | B1 | 20010724 | US 1998-128818 | 19980804 |
| ZA 9807118 | A | 19990209 | ZA 1998-7118 | 19980807 |
| JP 11124302 | A2 | 19990511 | JP 1998-234861 | 19980807 |
| AU 9879895 | A1 | 19990218 | AU 1998-79895 | 19980811 |
| AU 768390 | B2 | 20031211 | | |
| BR 9803138 | A | 19991221 | BR 1998-3138 | 19980811 |

PRIORITY APPLN. INFO.:

AB The title compns. (no examples) comprise an insecticide, preferably imidacloprid, incorporated into an organic natural and/or synthetic carrier. Optional ingredients are insect attractants and microbicides.

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1981:27685 CAPLUS

DOCUMENT NUMBER: 94:27685

TITLE: Studies on deterioration of wood by insects. III. Chemical composition of fecal matter, nest material and fungus comb of some Indian termites

AUTHOR(S): Mishra, Suresh Chandra; Sen-Sarma, Parimal Kumar

CORPORATE SOURCE: For. Entomol. Branch, Forest Res. Inst. Coll., Dehra Dun, India

SOURCE: Material und Organismen (1979), 14(1), 1-14

CODEN: MTOGAF; ISSN: 0025-5270

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Moisture content, ash, carbohydrate, sugar, N, lignin, and pH of fecal matter, nest material, and fungus comb of 13 species of termites belonging to the genera Neotermes, Cryptotermes, Stylotermes, Coptotermes, Heterotermes, Microcerotermes, Nasutitermes, Odontotermes, and Microtermes were studied. The moisture content of dry fecal pellets ranged from 13.3% to 23.0% and of formless excreta ranged from 37.8% to 64.4%. The moisture content of wood carton nests varied from 19.6% to 29.8%. Fungus combs contained a high (45.4-56.6%) moisture content. The ash content in formless excreta was higher (10.5-14.4%) than in dry fecal pellets (3.2-5.5%). An accumulation of mineral matter from the flow of sap into the cavities or wounds formed by termites in standing trees and proctodeal feeding may account for this. The ash content of carton nests and fungus combs was high (4.2-34.8% and 12.5-25.6%, resp). This indicates that soil is one of the constituents of the nest. The concentration

of soluble sugars in fecal pellets (7.2-18.6%), in carton nests (5.4-16.8%), and fungus comb (23.2-31.0%) was higher. The concentration of polysaccharides (cellulose 8.0-20.0% and hemicelluloses 18.8-32.0%) in fecal matter, nest material, and fungus comb indicates a very high but not complete assimilation of cellulose and hemicelluloses by the termites.

The sugars detected show that termites do not utilize all the sugars of the hemicellulose group. The lignin content in fecal matter and nest material was high (35.9-55.6%), suggesting that only a small quantity of lignin in the wood could be degraded by termites.

The lignin content in fungus combs (20.2-29.2%) was low, which may be due to decomposition of fungus combs by the fungi growing on them. The N content

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in the fecal matter (0.53-1.06%), nest material (0.76-1.14%), and fungus combs (1.24-2.13%) indicates that **termites** are not able to assimilate all the N present in their food. The pH of the fecal matter, nest material, and fungus comb cannot be correlated with the pH of the hindgut of the **termites**.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:491328 CAPLUS
DOCUMENT NUMBER: 89:91328
TITLE: Composition for preserving wood
and wooden articles
INVENTOR(S): Metzner, Wolfgang; Koddebusch, Hubert; Cymorek,
Siegfried; Hinterberger, Helmut
PATENT ASSIGNEE(S): Desowag-Bayer Holzschutz G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger., 8 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|-----------------|-----------------|----------|
| DE 2644077 | B1 | 19771103 | DE 1976-2644077 | 19760930 |
| DE 2644077 | C2 | 19790628 | | |
| NL 7710148 | A | 19780403 | NL 1977-10148 | 19770915 |
| NO 7703254 | A | 19780331 | NO 1977-3254 | 19770922 |
| NO 147405 | B | 19821227 | | |
| NO 147405 | C | 19830413 | | |
| BE 859030 | A1 | 19780328 | BE 1977-8397 | 19770926 |
| FR 2366110 | A1 | 19780428 | FR 1977-29108 | 19770926 |
| FR 2366110 | B1 | 19800801 | | |
| ES 462725 | A1 | 19780601 | ES 1977-462725 | 19770928 |
| DK 7704311 | A | 19780331 | DK 1977-4311 | 19770929 |
| DK 147038 | B | 19840326 | | |
| DK 147038 | C | 19841001 | | |
| SE 7710901 | A | 19780331 | SE 1977-10901 | 19770929 |
| SE 425470 | B | 19821004 | | |
| SE 425470 | C | 19830113 | | |
| BR 7706505 | A | 19780808 | BR 1977-6505 | 19770929 |
| CA 1078104 | A1 | 19800527 | CA 1977-287919 | 19770929 |
| AT 7706965 | A | 19850615 | AT 1977-6965 | 19770929 |
| AT 379541 | B | 19860127 | | |
| FI 7702895 | A | 19780331 | FI 1977-2895 | 19770930 |
| FI 60807 | B | 19811231 | | |
| FI 60807 | C | 19820413 | | |
| JP 53044604 | A2 | 19780421 | JP 1977-117793 | 19770930 |
| JP 62024241 | B4 | 19870527 | | |
| GB 1590069 | A | 19810528 | GB 1977-40820 | 19770930 |
| CH 634343 | A | 19830131 | CH 1977-11989 | 19770930 |
| PRIORITY APPLN. INFO.: | | DE 1976-2644077 | | 19760930 |

AB Wood preservatives were prepared by compounding carbamate derivs. with a 1-trityl-1,2,4-triazole derivative or chlorinated PhOH, phosphorothioates, and organic solvents. Thus, a formulation containing pentachlorophenol [87-86-5] 5.0, isopropoxyphenyl methylcarbamate 0.6, O,O-diethyl O-(α -cyanobenzylideneamino) phosphorothioate [14816-18-3] 1.8, alkyd resin 12.0, siccative 0.2, and hydrocarbon solvent 80.4% protected wood against fungus, insects, and termites.

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(FILE 'HOME' ENTERED AT 14:00:50 ON 02 AUG 2004)

FILE 'STNGUIDE' ENTERED AT 14:00:59 ON 02 AUG 2004

FILE 'CAPLUS' ENTERED AT 14:01:38 ON 02 AUG 2004

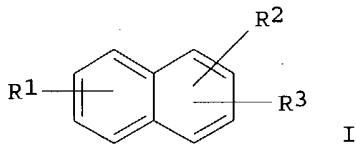
L1 2131 S TERMITES
L2 275 S L1 AND INSECTS
L3 97 S L2 AND WOOD
L4 5 S L3 AND COMPOSITION

=> s l1 and imidacloprid
1380 IMIDACLOPRID
L5 22 L1 AND IMIDACLOPRID

=> d 15 20-25 ibib hitstr abs

L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:648220 CAPLUS
DOCUMENT NUMBER: 123:27832
TITLE: Odorless insect repellents against termites
INVENTOR(S): Ueda, Masayoshi; Muto, Yutaka
PATENT ASSIGNEE(S): Japan Carlit Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|-----------|-----------------|----------|
| JP 07089803 | A2 | 19950404 | JP 1993-258961 | 19930924 |
| PRIORITY APPLN. INFO.: | | | JP 1993-258961 | 19930924 |
| OTHER SOURCE(S): | MARPAT | 123:27832 | | |
| GI | | | | |



AB An odorless insect repellent contains a repellent, a solvent and surfactant, or preservative; the solvent being I (R1, R2 = H, C1-2 alkyl; R3 = C1-3 alkyl). The active repellent may be chlorpyrifos, phoxim, pyridaphenthion, allethrin, carbaril, **imidacloprid**, etc. For example, an odorless emulsion was prepared by combining dimethylpropynaphthalene, chlorpyrifos, Sorpol-3006K and Sorpol-3008K.

L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:187187 CAPLUS
DOCUMENT NUMBER: 122:25815
TITLE: **Imidacloprid** - a new systemic insecticide.

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AUTHOR(S): Elbert, A.; Becker, B.; Hartwig, J.; Erdelen, C.
CORPORATE SOURCE: Geschaftsbereich Pflanzenschutz
Entwicklung/Insektizide, Bayer AG, Leverkusen, 5090,
Germany
SOURCE: Pflanzenschutz-Nachrichten Bayer (German Edition)
(1991), 44(2), 113-36
CODEN: PNBYAT; ISSN: 0340-1723
PUBLISHER: Bayer AG
DOCUMENT TYPE: Journal
LANGUAGE: German

AB The biol. profile of **Imidacloprid** (I) was defined on the basis of the results of exhaustive laboratory expts. and greenhouse trials. I is extremely effective against sucking insects, such as rice leafhoppers, aphids, thrips and mealybugs, and very effective against whitefly. It is also effective against some species of biting insects, such as paddy stem borers and Colorado beetle, but it has no effect on nematodes or spider mites. At comparatively high doses it kills adult insects and has ovicidal effects. I is a nicotinic acetylcholine receptor stimulator. Its mechanism of action differs from that of conventional insecticides. It therefore gives excellent control of all resistant populations investigated hitherto. I has a pos. temperature coefficient After foliar application, it has a good residual action, it is highly photostable and it shows satisfactory resistance to rain. I is active after oral ingestion and by direct contact, but it is not active in the vapor phase. The LD95 after oral ingestion by *Myzus persicae* is .apprx.2 pg/aphid. After topical application it is .apprx.160 pg/aphid. It has not been possible to demonstrate recovery of injured aphids, or antifeeding effects. I has a faster action against aphids than oxydemeton-Me. After foliar application, I shows good translaminar and acropetal translocation, so it is also likely to provide effective control of pests with a furtive lifestyle, and protect the parts of the plant which regenerate after treatment. By virtue of its good contact action and powerful systemic action after uptake through the root system, I can be applied to soil and used as a seed dressing. It gives excellent control of pests such as onion maggots, *Diabrotica*, wire worms, **termites** and fire ants which live in the soil, and of insects such as aphids which live above ground level. It has a good residual action after application to the soil and when it is used as a seed dressing. The compatibility of I with plants is good after use as a seed dressing, as a soil treatment and after foliar application. By virtue of its biol. properties, I is likely to have a wide range of uses for controlling economically important pests of rice, cotton, cereals, maize, sugar beet, potatoes, vegetables, citrus fruit, pome and stone fruit and other crops.

L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:54353 CAPLUS
DOCUMENT NUMBER: 118:54353
TITLE: Imidazolidine derivatives and related compounds as industrial insecticides and wood preservatives
INVENTOR(S): Tsuboi, Shinichi; Sone, Shinzaburo; Obinata, Toru;
Exner, Otto; Schwamborn, Michael
PATENT ASSIGNEE(S): Nihon Bayer Agrochem K. K., Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

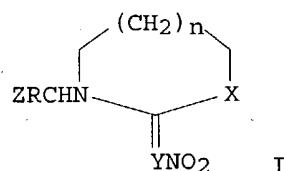
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

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| EP 511541 | A1 | 19921104 | EP 1992-106384 | 19920414 |
|---|----|----------|----------------|-------------|
| EP 511541 | B1 | 19960904 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 05032505 | A2 | 19930209 | JP 1991-350751 | 19911212 |
| JP 3162450 | B2 | 20010425 | | |
| JP 2001031511 | A2 | 20010206 | JP 2000-233512 | 19911212 |
| AU 9213908 | A1 | 19921029 | AU 1992-13908 | 19920330 |
| AU 645672 | B2 | 19940120 | | |
| AT 142077 | E | 19960915 | AT 1992-106384 | 19920414 |
| ES 2090400 | T3 | 19961016 | ES 1992-106384 | 19920414 |
| BR 9201534 | A | 19921201 | BR 1992-1534 | 19920427 |
| US 6323224 | B1 | 20011127 | US 1995-543351 | 19951016 |
| US 2001051643 | A1 | 20011213 | US 2001-886197 | 20010621 |
| PRIORITY APPLN. INFO.: | | | JP 1991-125172 | A 19910427 |
| | | | JP 1991-350751 | A 19911212 |
| | | | US 1992-872279 | B1 19920422 |
| | | | US 1995-543351 | A3 19951016 |

OTHER SOURCE(S) : MARPAT 118:54353

GI



AB The imidazolidine derivs. and related compds. I (X = NH, S; Y = CH, N; Z = 2-chloro-5-pyridyl, 2-chloro-5-thiazolyl; R = H, Me; n = 0, 1) are industrial insecticides and wood preservatives. Wood impregnated with 0.32 ppm **imidacloprid** was lethal to **termites** (*Coptotermes formosanus*) for ≥ 3 wk.

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=> s 11 and synergistic
3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (>).

=> s 11 and synergistic
58550 SYNERGISTIC
L6 17 L1 AND SYNERGISTIC

=> s 11 and fungicide
54569 FUNGICIDE
L7 48 L1 AND FUNGICIDE

=> s 11 and insecticide
65557 INSECTICIDE
L8 373 L1 AND INSECTICIDE

=> s 117 and 18
11 LL7
L9 0 LL7 AND L8

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=> s 16 and 17
L10 1 L6 AND L7

=> s 16 and 18
L11 10 L6 AND L8

=> s 110 and 111
L12 1 L10 AND L11

=> d 112 ibib hitstr abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:958571 CAPLUS
DOCUMENT NUMBER: 138:20917
TITLE: Wood preservatives containing terpene-maleic anhydride adducts and natural fungicidal and insecticidal components
INVENTOR(S): Iwakawa, Toru; Kobayashi, Tomonori; Morikawa, Toshiyuki
PATENT ASSIGNEE(S): Nippon Eisei Center Co., Ltd., Japan; Yasuhara Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2002363006 | A2 | 20021218 | JP 2001-170194 | 20010605 |
| | | | JP 2001-170194 | 20010605 |

PRIORITY APPLN. INFO.: AB A wood preservative composition that is effective against wood-damaging insects and wood-rotting fungi and safe for humans and livestock is obtained by mixing a natural fungicidal and insecticidal component (such as kihadanin) with the maleic anhydride adduct of a terpene. Thus, 1.0% α -terpinene-maleic anhydride adduct (TM-60) + 0.25% hinokitiol mixture diluted with longifolene synergistically controlled **termites** (Coptotermes).

=> d 111 1-10 ibib hitstr abs

L11 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:958571 CAPLUS
DOCUMENT NUMBER: 138:20917
TITLE: Wood preservatives containing terpene-maleic anhydride adducts and natural fungicidal and insecticidal components
INVENTOR(S): Iwakawa, Toru; Kobayashi, Tomonori; Morikawa, Toshiyuki
PATENT ASSIGNEE(S): Nippon Eisei Center Co., Ltd., Japan; Yasuhara Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|----------------------------------|----------------------|
| JP 2002363006 | A2 | 20021218 | JP 2001-170194
JP 2001-170194 | 20010605
20010605 |

PRIORITY APPLN. INFO.:

AB A wood preservative composition that is effective against wood-damaging insects and wood-rotting fungi and safe for humans and livestock is obtained by mixing a natural fungicidal and insecticidal component (such as kihadanin) with the maleic anhydride adduct of a terpene. Thus, 1.0% α -terpinene-maleic anhydride adduct (TM-60) + 0.25% hinokitiol mixture diluted with longifolene synergistically controlled **termites** (*Coptotermes*).

L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:142435 CAPLUS
 DOCUMENT NUMBER: 136:162742
 TITLE: **Synergistic insecticidal wood preservative compositions**
 INVENTOR(S): Bender, Raymond L.; Ross, Alan S.; Ward, Hans A.
 PATENT ASSIGNEE(S): Kop-Coat, Inc., USA
 SOURCE: PCT Int. Appl., 12 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2002013605 | A2 | 20020221 | WO 2001-US25341 | 20010814 |
| WO 2002013605 | A3 | 20020411 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 6582732 | B1 | 20030624 | US 2000-638594 | 20000815 |
| AU 2001084864 | A5 | 20020225 | AU 2001-84864 | 20010814 |
| EP 1311161 | A2 | 20030521 | EP 2001-963955 | 20010814 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| NZ 524216 | A | 20040326 | NZ 2001-524216 | 20010814 |
| PRIORITY APPLN. INFO.: | | | US 2000-638594 | A 20000815 |
| | | | WO 2001-US25341 | W 20010814 |

AB A wood treatment material having a synergistic combination of insecticides includes boron-containing compds. and synthetic pyrethroids, is provided. Resistance to attack by Formosan **termites**, in particular, is provided, in a cost-effective manner.

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:377283 CAPLUS
 DOCUMENT NUMBER: 125:51517
 TITLE: Pyrethroids and imidazolidine derivatives as synergistic insecticides against **termites**
 INVENTOR(S): Ootsu, Juichi; Sone, Shinzaburo

09886197

PATENT ASSIGNEE(S) : Nihon Tokushu Noyaku Seizo KK, Japan; Bayer Cropscience K.K.
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| JP 08099809 | A2 | 19960416 | JP 1994-259634 | 19940930 |
| JP 3493476 | B2 | 20040203 | | |
| US 5661164 | A | 19970826 | US 1995-532299 | 19950922 |
| US 5880142 | A | 19990309 | US 1997-848007 | 19970428 |
| PRIORITY APPLN. INFO.: | | | JP 1994-259634 | A 19940930 |
| | | | US 1995-532299 | A3 19950922 |

OTHER SOURCE(S) : MARPAT 125:51517

AB A synergistic insecticide contains a pyrethroid and ARNC(B)C:YX where R = H, acyl, alkyl (un)substituted heteroarylalkyl; A = H, alkyl, etc.; B = alkyl, SR1, NR1R2, etc.; R1, R2 H, acyl, alkyl, heteroarylalkyl; Y = :N-, :C(T1)-; T1 = H, (un)substituted alkyl; X = electron attracting group. For example, synergistic effects of 1-(6-chloro-3-pyridylmethyl)-2-nitroimidazolidin-2-ylidenamine and cyfluthrin against termites were demonstrated.

L11 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:601142 CAPLUS
DOCUMENT NUMBER: 115:201142
TITLE: Synergistic insecticides containing isobornyl thiocyanooethyl ether and bis(2,3,3,-tetrachloropropyl) ether
INVENTOR(S) : Tsuji, Hideaki; Taneike, Yoichiro; Konishi, Seiji; Okumura, Takeya
PATENT ASSIGNEE(S) : Sankyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 03128305 | A2 | 19910531 | JP 1989-332146 | 19891221 |
| PRIORITY APPLN. INFO.: | | | JP 1988-325012 | 19881223 |
| | | | JP 1989-186900 | 19890718 |

AB Insecticides, useful for controlling cockroaches, termites, etc., contain isobornyl thiocyanooethyl ether (I) and bis(2,3,3,3-tetrachloropropyl) ether (S-421) (II). An aqueous dispersion (100 mL) containing 10 ppm I and 10 ppm II was put in a container with Culex pipiens and kept at 26° for 48 h to show 100% insecticidal activity, vs. 0% and 55%, for controls containing I and II themselves, resp. I 10, II 20, xylene 60, and poly(oxyethylene) nonylphenyl ether 10 parts were mixed to give an emulsion.

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1990:174116 CAPLUS
DOCUMENT NUMBER: 112:174116

09886197

TITLE: **Synergistic** termite-controlling agents containing cyclopropanecarboxylate and octachloro-4-oxaheptane

INVENTOR(S): Kono, Yoriko; Tsuda, Shigenori; Ito, Takaaki

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 01287005 | A2 | 19891117 | JP 1988-117757 | 19880513 |
| JP 2576588 | B2 | 19970129 | | |

PRIORITY APPLN. INFO.: JP 1988-117757 19880513

AB **Synergistic** termite-controlling agents contain α -cyano-3-phenoxybenzyl 3-(1,2,2,2-tetrabromoethyl)-2,2-dimethylcyclopropanecarboxylate (I) and 1,1,1,2,6,7,7,7-octachloro-4-oxaheptane (II) as active ingredients. The agents control **termites** at low concentration. An emulsion containing I and II, applied to soil at 0.03% I and 0.2% II, 100% controlled Coptotermes formosanus after 24 h, vs. 80 and 21% control, for I and II, resp. An emulsion comprised I 0.6, II 15, Sorpol SM200 20, and xylene 64.4 weight parts.

L11 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:187823 CAPLUS
DOCUMENT NUMBER: 110:187823
TITLE: **Synergistic** ant-controlling agents and wood preservatives containing chlorpyrifos and phosphorothioate derivatives

INVENTOR(S): Nishimoto, Koichi; Imamura, Kennosuke

PATENT ASSIGNEE(S): Nippon Chemical Industrial Co., Ltd., Japan; Chemiholz K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63301803 | A2 | 19881208 | JP 1987-137791 | 19870602 |
| JP 08022809 | B4 | 19960306 | | |

PRIORITY APPLN. INFO.: JP 1987-137791 19870602

AB A mixture of chlorpyrifos (I) and O,O-di-Et O-dichlorophenyl phosphorothioate (II) is useful as an ant repellent and a wood preservative. A mixture of 37.8% I and 62.1% II showed no precipitation after 48 h at room temperature, had no bad odor when left 1 h at room temperature, and its 0.1% solution showed 100% control of house **termites** after 20 h, vs., no control by a reference compound, chlordane, with the same dilution

L11 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:624743 CAPLUS
DOCUMENT NUMBER: 109:224743
TITLE: **Synergistic** antitermites for wood containing

09886197

INVENTOR(S): Katsuta, Yoshio
PATENT ASSIGNEE(S): Dainippon Jochugiku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

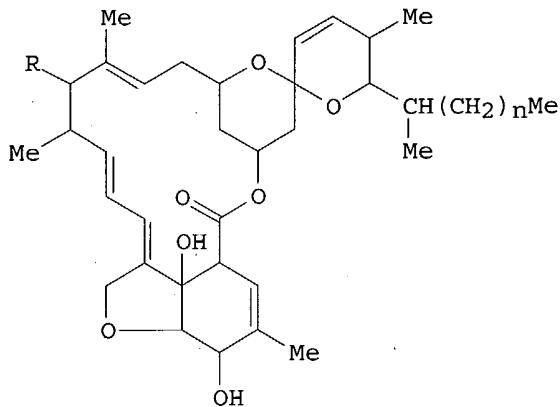
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63174908 | A2 | 1980719 | JP 1987-8826 | 19870116 |
| JP 07068095 | B4 | 19950726 | | |

PRIORITY APPLN. INFO.: JP 1987-8826 19870116
AB Antitermites containing Mo compds. and W compds. are applied to woods. Aqueous solution (1 mL) containing 0.50% Na molybdate (I) and 0.50% Na₂WO₄ was dropped on filter paper (diameter 6 cm) and dried. Reticulitermes speratus was completely controlled with the composition, vs. 87% and 80% control, for 1.0% I and 1.0% Na₂WO₄, resp. A wettable powder was prepared from I 1, Na₂WO₄ 2, 3-iodo-2-propylbutyl carbamate 1, diatomaceous earth 35, clay 56, laurylsulfonate salt 3, and CMC 2 parts.

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:549238 CAPLUS
DOCUMENT NUMBER: 107:149238
TITLE: Synergistic insecticide comprising avermectin and silicon dioxide
INVENTOR(S): Putter, Irving; Stout, Daniel M.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| US 4678774 | A | 19870707 | US 1985-741926 | 19850606 |
| PRIORITY APPLN. INFO.: | | | US 1985-741926 | 19850606 |

GI



AB A synergistic insecticidal composition consists of an avermectin I ($R = \alpha$ -L-oleandrosyl- α -L-oleandrosyloxy; $n = 0, 1$) and SiO_2 . A composition containing 001 μg avermectin B1a/B1b and 1 mg SiO_2 synergistically controlled termites.

L11 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:592524 CAPLUS
 DOCUMENT NUMBER: 89:192524
 TITLE: Synergistic insecticidal composition
 INVENTOR(S): Mukai, Toshihiko; Oda, Satoshi; Magami, Masato
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 53075330 | A2 | 19780704 | JP 1976-151721 | 19761216 |
| PRIORITY APPLN. INFO.: | | | JP 1976-151721 | 19761216 |

AB Chlordene-permethrin mixture [68170-17-2] is a synergistic insecticide. The mixture (0.1 + 0.1%) killed termites 100% whereas each component even at 2% were less effective.

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:592523 CAPLUS
 DOCUMENT NUMBER: 89:192523
 TITLE: Synergistic insecticidal composition
 INVENTOR(S): Mukai, Toshihiko; Oda, Satoshi; Magami, Masato
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

09886197

| | | | | |
|------------------------|----------------------------------|---|--|----------|
| JP 53075328 | A2 | 19780704 | JP 1976-151720 | 19761216 |
| PRIORITY APPLN. INFO.: | | | JP 1976-151720 | 19761216 |
| AB | Synergistic insecticidal compns. | contain 1 or more tributyltin
compds. and synthetic pyrethroids. | Synergism was demonstrated against
termites by a tributyltin oxide-permethrin mixture [68202-14-2]
(0.5 + 0.1%). | |

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 72.28 | 72.55 |
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STRUCTURE FILE UPDATES: 1 AUG 2004 HIGHEST RN 720662-84-0
DICTIONARY FILE UPDATES: 1 AUG 2004 HIGHEST RN 720662-84-0

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 68202-14-2/RN

L13 1 68202-14-2/RN

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L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 68202-14-2 REGISTRY
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-,
(3-phenoxyphenyl)methyl ester, mixt. with hexabutyldistannoxane (9CI) (CA

09886197

INDEX NAME)
OTHER CA INDEX NAMES:
CN Distannoxyane, hexabutyl-, mixt. contg. (9CI)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
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=> logoff
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LOGOFF? (Y)/N/HOLD:H

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 3.45 | 76.00 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -13.23 |

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STN INTERNATIONAL SESSION SUSPENDED AT 14:13:02 ON 02 AUG 2004

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LOGINID:sssptal202sxq

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

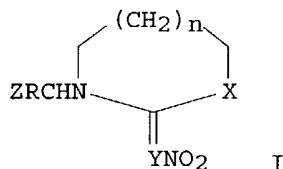
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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 May 12 EXTEND option available in structure searching
NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent
SDIs in Cplus
NEWS 6 May 27 Cplus super roles and document types searchable in REGISTRY
NEWS 7 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
and WATER from CSA now available on STN(R)
NEWS 9 Jul 12 BEILSTEIN enhanced with new display and select options,
resulting in a closer connection to BABS
NEWS 10 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction

09886197

| | | | | |
|---|----|----------|----------------|-------------|
| EP 511541 | A1 | 19921104 | EP 1992-106384 | 19920414 |
| EP 511541 | B1 | 19960904 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| JP 05032505 | A2 | 19930209 | JP 1991-350751 | 19911212 |
| JP 3162450 | B2 | 20010425 | | |
| JP 2001031511 | A2 | 20010206 | JP 2000-233512 | 19911212 |
| AU 9213908 | A1 | 19921029 | AU 1992-13908 | 19920330 |
| AU 645672 | B2 | 19940120 | | |
| AT 142077 | E | 19960915 | AT 1992-106384 | 19920414 |
| ES 2090400 | T3 | 19961016 | ES 1992-106384 | 19920414 |
| BR 9201534 | A | 19921201 | BR 1992-1534 | 19920427 |
| US 6323224 | B1 | 20011127 | US 1995-543351 | 19951016 |
| US 2001051643 | A1 | 20011213 | US 2001-886197 | 20010621 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | JP 1991-125172 | A 19910427 |
| | | | JP 1991-350751 | A 19911212 |
| | | | US 1992-872279 | B1 19920422 |
| | | | US 1995-543351 | A3 19951016 |

OTHER SOURCE(S) : MARPAT 118:54353
GI



AB The imidazolidine derivs. and related compds. I (X = NH, S; Y = CH, N; Z = 2-chloro-5-pyridyl, 2-chloro-5-thiazolyl; R = H, Me; n = 0, 1) are industrial insecticides and wood preservatives. Wood impregnated with 0.32 ppm **imidacloprid** was lethal to **termites** (*Coptotermes formosanus*) for ≥3 wk.

=>
=> s 11 and synergisti3
3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
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"HELP COMMANDS" at an arrow prompt (>).

=> s 11 and synergistic
58550 SYNERGISTIC
L6 17 L1 AND SYNERGISTIC

=> s 11 and fungicide
54569 FUNGICIDE
L7 48 L1 AND FUNGICIDE

=> s 11 and insecticide
65557 INSECTICIDE
L8 373 L1 AND INSECTICIDE

=> s 117 and 18
11 LL7
L9 0 LL7 AND L8

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=> s 16 and 17
L10 1 L6 AND L7

=> s 16 and 18
L11 10 L6 AND L8

=> s 110 and 111
L12 1 L10 AND L11

=> d 112 ibib hitstr abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:958571 CAPLUS
DOCUMENT NUMBER: 138:20917
TITLE: Wood preservatives containing terpene-maleic anhydride adducts and natural fungicidal and insecticidal components
INVENTOR(S): Iwakawa, Toru; Kobayashi, Tomonori; Morikawa, Toshiyuki
PATENT ASSIGNEE(S): Nippon Eisei Center Co., Ltd., Japan; Yasuhara Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002363006 | A2 | 20021218 | JP 2001-170194 | 20010605 |
| PRIORITY APPLN. INFO.: | | | JP 2001-170194 | 20010605 |

AB A wood preservative composition that is effective against wood-damaging insects and wood-rotting fungi and safe for humans and livestock is obtained by mixing a natural fungicidal and insecticidal component (such as kihadanin) with the maleic anhydride adduct of a terpene. Thus, 1.0% α -terpinene-maleic anhydride adduct (TM-60) + 0.25% hinokitiol mixture diluted with longifolene synergistically controlled **termites** (*Coptotermes*).

=> d 111 1-10 ibib hitstr abs

L11 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:958571 CAPLUS
DOCUMENT NUMBER: 138:20917
TITLE: Wood preservatives containing terpene-maleic anhydride adducts and natural fungicidal and insecticidal components
INVENTOR(S): Iwakawa, Toru; Kobayashi, Tomonori; Morikawa, Toshiyuki
PATENT ASSIGNEE(S): Nippon Eisei Center Co., Ltd., Japan; Yasuhara Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

09886197

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2002363006 | A2 | 20021218 | JP 2001-170194 | 20010605 |
| PRIORITY APPLN. INFO.: | | | JP 2001-170194 | 20010605 |

AB A wood preservative composition that is effective against wood-damaging insects and wood-rotting fungi and safe for humans and livestock is obtained by mixing a natural fungicidal and insecticidal component (such as kihadanin) with the maleic anhydride adduct of a terpene. Thus, 1.0% α -terpinene-maleic anhydride adduct (TM-60) + 0.25% hinokitiol mixture diluted with longifolene synergistically controlled **termites** (Coptotermes).

L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:142435 CAPLUS
DOCUMENT NUMBER: 136:162742
TITLE: **Synergistic** insecticidal wood preservative compositions
INVENTOR(S): Bender, Raymond L.; Ross, Alan S.; Ward, Hans A.
PATENT ASSIGNEE(S): Kop-Coat, Inc., USA
SOURCE: PCT Int. Appl., 12 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2002013605 | A2 | 20020221 | WO 2001-US25341 | 20010814 |
| WO 2002013605 | A3 | 20020411 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| US 6582732 | B1 | 20030624 | US 2000-638594 | 20000815 |
| AU 2001084864 | A5 | 20020225 | AU 2001-84864 | 20010814 |
| EP 1311161 | A2 | 20030521 | EP 2001-963955 | 20010814 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| NZ 524216 | A | 20040326 | NZ 2001-524216 | 20010814 |
| PRIORITY APPLN. INFO.: | | | US 2000-638594 | A 20000815 |
| | | | WO 2001-US25341 | W 20010814 |

AB A wood treatment material having a **synergistic** combination of insecticides includes boron-containing compds. and synthetic pyrethroids, is provided. Resistance to attack by Formosan **termites**, in particular, is provided, in a cost-effective manner.

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:377283 CAPLUS
DOCUMENT NUMBER: 125:51517
TITLE: Pyrethroids and imidazolidine derivatives as **synergistic** insecticides against **termites**
INVENTOR(S): Ootsu, Juichi; Sone, Shinzaburo

09886197

PATENT ASSIGNEE(S) : Nihon Tokushu Noyaku Seizo KK, Japan; Bayer Cropscience K.K.
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------|------|----------|-----------------|-------------|
| JP 08099809 | A2 | 19960416 | JP 1994-259634 | 19940930 |
| JP 3493476 | B2 | 20040203 | | |
| US 5661164 | A | 19970826 | US 1995-532299 | 19950922 |
| US 5880142 | A | 19990309 | US 1997-848007 | 19970428 |
| PRIORITY APPLN. INFO. : | | | JP 1994-259634 | A 19940930 |
| | | | US 1995-532299 | A3 19950922 |

OTHER SOURCE(S) : MARPAT 125:51517

AB A synergistic insecticide contains a pyrethroid and ARNC(B)C:YX where R = H, acyl, alkyl (un)substituted heteroarylalkyl; A = H, alkyl, etc.; B = alkyl, SR₁, NR₁R₂, etc.; R₁, R₂ H, acyl, alkyl, heteroarylalkyl; Y = :N-, :C(T₁)-; T₁ = H, (un)substituted alkyl; X = electron attracting group. For example, synergistic effects of 1-(6-chloro-3-pyridylmethyl)-2-nitroimidazolidin-2-ylidenamine and cyfluthrin against termites were demonstrated.

L11 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:601142 CAPLUS

DOCUMENT NUMBER: 115:201142

TITLE: Synergistic insecticides containing isobornyl thiocyanoethyl ether and bis(2,3,3,-tetrachloropropyl) ether

INVENTOR(S) : Tsuji, Hideaki; Taneike, Yoichiro; Konishi, Seiji; Okumura, Takeya

PATENT ASSIGNEE(S) : Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------|------|----------|-----------------|----------|
| JP 03128305 | A2 | 19910531 | JP 1989-332146 | 19891221 |
| PRIORITY APPLN. INFO. : | | | JP 1988-325012 | 19881223 |
| | | | JP 1989-186900 | 19890718 |

AB Insecticides, useful for controlling cockroaches, termites, etc., contain isobornyl thiocyanoethyl ether (I) and bis(2,3,3,3-tetrachloropropyl) ether (S-421) (II). An aqueous dispersion (100 mL) containing

10 ppm I and 10 ppm II was put in a container with Culex pipiens and kept at 26° for 48 h to show 100% insecticidal activity, vs. 0% and 55%, for controls containing I and II themselves, resp. I 10, II 20, xylene 60, and poly(oxyethylene) nonylphenyl ether 10 parts were mixed to give an emulsion.

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:174116 CAPLUS

DOCUMENT NUMBER: 112:174116

09886197

TITLE: **Synergistic** termite-controlling agents containing cyclopropanecarboxylate and octachloro-4-oxaheptane

INVENTOR(S): Kono, Yoriko; Tsuda, Shigenori; Ito, Takaaki

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 01287005 | A2 | 19891117 | JP 1988-117757 | 19880513 |
| JP 2576588 | B2 | 19970129 | | |

PRIORITY APPLN. INFO.: JP 1988-117757 19880513

AB **Synergistic** termite-controlling agents contain α -cyano-3-phenoxybenzyl 3-(1,2,2,2-tetrabromoethyl)-2,2-dimethylcyclopropanecarboxylate (I) and 1,1,1,2,6,7,7,7-octachloro-4-oxaheptane (II) as active ingredients. The agents control termites at low concentration. An emulsion containing I and II, applied to soil at 0.03% I and 0.2% II, 100% controlled Coptotermes formosanus after 24 h, vs. 80 and 21% control, for I and II, resp. An emulsion comprised I 0.6, II 15, Sorpol SM200 20, and xylene 64.4 weight parts.

L11 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:187823 CAPLUS
DOCUMENT NUMBER: 110:187823
TITLE: **Synergistic** ant-controlling agents and wood preservatives containing chlorpyrifos and phosphorothioate derivatives

INVENTOR(S): Nishimoto, Koichi; Imamura, Kennosuke
PATENT ASSIGNEE(S): Nippon Chemical Industrial Co., Ltd., Japan; Chemiholz K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
COPDEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63301803 | A2 | 19881208 | JP 1987-137791 | 19870602 |
| JP 08022809 | B4 | 19960306 | | |

PRIORITY APPLN. INFO.: JP 1987-137791 19870602

AB A mixture of chlorpyrifos (I) and O,O-di-Et O-dichlorophenyl phosphorothioate (II) is useful as an ant repellent and a wood preservative. A mixture of 37.8% I and 62.1% II showed no precipitation after 48 h at room temperature, had no bad odor when left 1 h at room temperature, and its 0.1% solution showed 100% control of house termites after 20 h, vs., no control by a reference compound, chlordane, with the same dilution

L11 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:624743 CAPLUS
DOCUMENT NUMBER: 109:224743
TITLE: **Synergistic** antitermites for wood containing

09886197

INVENTOR(S): Katsuta, Yoshio
PATENT ASSIGNEE(S): Dainippon Jochugiku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63174908 | A2 | 1980719 | JP 1987-8826 | 19870116 |
| JP 07068095 | B4 | 19950726 | | |

PRIORITY APPLN. INFO.:

AB Antitermites containing Mo compds. and W compds. are applied to woods. Aqueous solution (1 mL) containing 0.50% Na molybdate (I) and 0.50% Na₂WO₄ was droped on

filter paper (diameter 6 cm) and dried. Reticulitermes speratus was completely controlled with the composition, vs. 87% and 80% control, for 1.0% I and 1.0% Na₂WO₄, resp. A wettable powder was prepared from I 1, Na₂WO₄ 2, 3-iodo-2-propylbutyl carbamate 1, diatomaceous earth 35, clay 56, laurylsulfonate salt 3, and CMC 2 parts.

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:549238 CAPLUS

DOCUMENT NUMBER: 107:149238

TITLE: **Synergistic insecticide** comprising avermectin and silicon dioxide

INVENTOR(S): Putter, Irving; Stout, Daniel M.

PATENT ASSIGNEE(S): Merck and Co., Inc. , USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

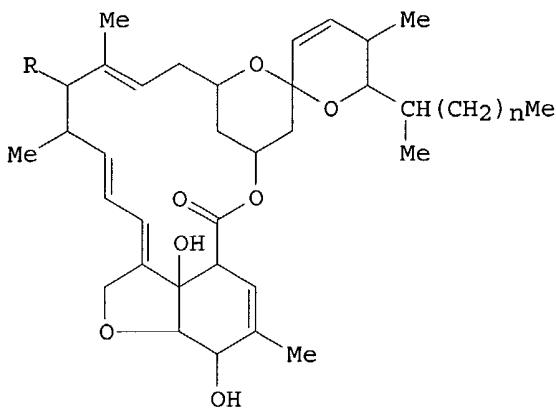
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 4678774 | A | 19870707 | US 1985-741926 | 19850606 |
| | | | US 1985-741926 | 19850606 |

PRIORITY APPLN. INFO.:

GI



AB A synergistic insecticidal composition consists of an avermectin I ($R = \alpha$ -L-oleandrosyl- α -L-oleandrosyloxy; $n = 0, 1$) and SiO_2 . A composition containing 001 μg avermectin Bla/B1b and 1 mg SiO_2 synergistically controlled termites.

L11 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:592524 CAPLUS
 DOCUMENT NUMBER: 89:192524
 TITLE: Synergistic insecticidal composition
 INVENTOR(S): Mukai, Toshihiko; Oda, Satoshi; Magami, Masato
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 53075330 | A2 | 19780704 | JP 1976-151721 | 19761216 |
| | | | JP 1976-151721 | 19761216 |

PRIORITY APPLN. INFO.:
 AB Chlordene-permethrin mixture [68170-17-2] is a synergistic insecticide. The mixture (0.1 + 0.1%) killed termites 100% whereas each component even at 2% were less effective.

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:592523 CAPLUS
 DOCUMENT NUMBER: 89:192523
 TITLE: Synergistic insecticidal composition
 INVENTOR(S): Mukai, Toshihiko; Oda, Satoshi; Magami, Masato
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

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| | | | | |
|------------------------|--|----------|----------------|----------|
| JP 53075328 | A2 | 19780704 | JP 1976-151720 | 19761216 |
| PRIORITY APPLN. INFO.: | | | JP 1976-151720 | 19761216 |
| AB | Synergistic insecticidal compns. contain 1 or more tributyltin compds. and synthetic pyrethroids. Synergism was demonstrated against termites by a tributyltin oxide-permethrin mixture [68202-14-2] (0.5 + 0.1%). | | | |

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
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| FULL ESTIMATED COST | 72.28 | 72.55 |
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| CA SUBSCRIBER PRICE | -13.23 | -13.23 |

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STRUCTURE FILE UPDATES: 1 AUG 2004 HIGHEST RN 720662-84-0
DICTIONARY FILE UPDATES: 1 AUG 2004 HIGHEST RN 720662-84-0

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> S 68202-14-2/RN

L13 1 68202-14-2/RN

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THE ESTIMATED COST FOR THIS REQUEST IS 1.77 U.S. DOLLARS
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L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 68202-14-2 REGISTRY
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester, mixt. with hexabutyldistannoxane (9CI) (CA

09886197

INDEX NAME)
OTHER CA INDEX NAMES:
CN Distannoxane, hexabutyl-, mixt. contg. (9CI)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:d his
'D HIS' IS NOT VALID HERE
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 3.45 | 76.00 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -13.23 |

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